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1 Static resource models for code-size efficient embedded processors
Qin Zhao, Bart Mesman, Twan Basten
May 2003 ACM Transactions on Embedded Computing Systems (TECS), Volume 2 Issue 2
Publisher: ACM
Full text available: 📄 pdf(651.62 KB)   Additional Information: full citation, abstract, references, index terms

Due to an increasing need for flexibility, embedded systems embody more and more programmable processors as their core components. Due to silicon area and power considerations, the corresponding instruction sets are often highly encoded to minimize code ...

Keywords: Static resource models, constraint analysis, convex hull, phase coupling, scheduling

2 Interposed request routing for scalable network storage
February 2002 ACM Transactions on Computer Systems (TOCS), Volume 20 Issue 1
Publisher: ACM
Full text available: 📄 pdf(363.12 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

This paper explores interposed request routing in Slice, a new storage system architecture for high-speed networks incorporating network-attached block storage. Slice interposes a request switching filter---called a μproxy---along each client's ...

Keywords: Content switch, file server, network file system, network storage, request redirection, service virtualization

3 A unified framework and algorithm for channel assignment in wireless networks
S. Ramanathan
March 1999 Wireless Networks, Volume 5 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: 📄 pdf(260.54 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Channel assignment problems in the time, frequency and code domains have thus far been studied separately. Exploiting the similarity of constraints that characterize assignments within and across these domains, we introduce the first unified framework ...

4   Tree multicast strategies in mobile, multihop wireless networks
    Mario Gerla, Ching-Chuan Chiang, Lixia Zhang
    October 1999 Mobile Networks and Applications,   Volume 4 Issue 3
    Publisher: ACM
    Full text available: 📄 pdf(285.79 KB)   Additional Information: full citation, abstract, references, cited by, index terms

    Tree multicast is a well established concept in wired networks. Two versions, per-source tree multicast (e.g., DVMRP) and shared tree multicast (e.g., Core Based Tree), account for the majority of the wireline implementations. In this paper, we extend ...

5   OVSF-CDMA code assignment in wireless ad hoc networks
    Peng-Jun Wan, Xiang-Yang Li, Ophir Frieder
    October 2004 DI ALM-POMC '04: Proceedings of the 2004 joint workshop on Foundations of
                 mobile computing
    Publisher: ACM
    Full text available: 📄 pdf(198.79 KB)   Additional Information: full citation, abstract, references, cited by, index terms

    Orthogonal Variable Spreading Factor (OVSF) CDMA code provides a means of support of variable rate data service at low hardware cost. In contrast to the conventional orthogonal fixed-spreading-factor CDMA code, OVSF-CDMA code consists of an infinite ...

    Keywords: OVSF-CDMA, approximation algorithms, code assignment, graph theory, system design

6   Assigning codes in wireless networks: bounds and scaling properties
    Roberto Battiti, Alan A. Bertossi, Maurizio A. Bonuccelli
    May 1999 Wireless Networks,   Volume 5 Issue 3
    Publisher: Kluwer Academic Publishers
    Full text available: 📄 pdf(383.87 KB)   Additional Information: full citation, abstract, references, cited by, index terms

    In the Code Division Multiple Access (CDMA) framework, collisions that can occur in wireless networks are eliminated by assigning orthogonal codes to stations, a problem equivalent to that of coloring graphs associated to the physical network. In this ...

7   Adaptive joint multiuser detection and channel estimation in multipath fading CDMA channels
    Xiaodong Wang, H. Vincent Poor
    November 1998 Wireless Networks,   Volume 4 Issue 6
    Publisher: Kluwer Academic Publishers
    Full text available: 📄 pdf(357.24 KB)   Additional Information: full citation, abstract, references, cited by, index terms

    The problem of joint multiuser detection and channel estimation in frequency-selective

Rayleigh fading CDMA channels is considered. First the optimal multiuser detector for such channels is derived, which is seen to have a computational complexity exponential ...

8 Region proximity in metric spaces and its use for approximate similarity search

Giuseppe Amato, Fausto Rabitti, Pasquale Savino, Pavel Zezula

April 2003 ACM Transactions on Information Systems (TOIS), Volume 21 Issue 2

Publisher: ACM

Full text available: pdf(1.01 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Similarity search structures for metric data typically bound object partitions by ball regions. Since regions can overlap, a relevant issue is to estimate the proximity of regions in order to predict the number of objects in the regions' intersection. ...

Keywords: Approximation algorithms, approximate similarity search, metric data, metric trees, performance evaluation

9 A nested transaction model for multilevel secure database management systems

Elisa Bertino, Barbara Catania, Elena Ferrari

November 2001 ACM Transactions on Information and System Security (TISSEC), Volume 4 Issue 4

Publisher: ACM

Full text available: pdf(560.96 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This article presents an approach to concurrency control for transactions in a Multilevel Secure Database Management System (MLS/DBMS). The major problem is that concurrency control mechanisms used in traditional DBMSs are not adequate in a MLS/DBMS, ...

Keywords: Nested transactions, concurrency control, covert channels, multilevel secure database management systems

10 Environment matting and compositing

Douglas E. Zongker, Dawn M. Werner, Brian Curless, David H. Salesin

July 1999 SIGGRAPH '99: Proceedings of the 26th annual conference on Computer graphics and interactive techniques

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available: pdf(1.76 MB)   Additional Information: full citation, references, cited by, index terms

Keywords: alpha channel, augmented reality, blue spill, blue-screen matting, clip art, colored transparency, environment map, environment matte, image-based rendering, interactive lighting design, reflection, refraction

11 An uplink CDMA system architecture with diverse QoS guarantees for heterogeneous traffic

Sunghyun Choi, Kang G. Shin

October 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 5

Publisher: IEEE Press

Full text available: pdf(408.20 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: CDMA systems, QoS guarantees, admission control, automatic retransmission reQuest, multicode CDMA, power control, reed-Solomon/convolutional concatenated code, transmission-rate request access protocol, wireless/mobile communication

12 Dynamic bandwidth allocation for multimedia traffic with rate guarantee and fair access in WCDMA systems

Chih-Min Chao, Yu-Chee Tseng, Li-Chun Wang

September 2003 MSWIM '03: Proceedings of the 6th ACM international workshop on Modeling analysis and simulation of wireless and mobile systems

Publisher: ACM

Full text available: pdf(153.83 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Packet scheduling in a WCDMA system poses a new challenge due to its nature of variable bit rates and location-dependent, time-varying channel conditions. In this work, two new downlink scheduling algorithms for a WCDMA base station are proposed to support ...

Keywords: 3G, OVSF, WCDMA, mobile computing, personal communication services, wireless communication

13 Visibility sorting and compositing without splitting for image layer decompositions

John Snyder, Jed Lengyel

July 1998 SIGGRAPH '98: Proceedings of the 25th annual conference on Computer graphics and interactive techniques

Publisher: ACM

Full text available: pdf(591.53 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: compositing, kd-tree, nonsplitting layered decomposition, occlusion cycle, occlusion graph, sprite, visibility sorting

14 Lagrangean based methods for solving large-scale cellular network design problems

Filipe F. Mazzini, Geraldo R. Mateus, James Macgregor Smith

November 2003 Wireless Networks, Volume 9 Issue 6

Publisher: Kluwer Academic Publishers

Full text available: pdf(200.31 KB)   Additional Information: full citation, abstract, references, cited by, index terms

The cellular network design (CND) problem is formulated as a comprehensive linear mixed integer programming model integrating the base station location (BSL) problem, the frequency channel assignment (FCA) problem and the topological network design (TND) ...

Keywords: algorithms, base station location, cellular network design, frequency channel assignment, optimization

15 An approach to engineer and enforce context constraints in an RBAC environment

Gustaf Neumann, Mark Strembeck

June 2003 SACMAT '03: Proceedings of the eighth ACM symposium on Access control models and technologies

Publisher: ACM

Full text available: pdf(377.68 KB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper presents an approach that uses special purpose RBAC constraints to base certain access control decisions on context information. In our approach a *context constraint* is defined as a dynamic RBAC constraint that checks the actual values ...

16 Energy-efficient routing for connection-oriented traffic in wireless ad-hoc networks
Anastassios Michail, Anthony Ephremides
October 2003 Mobile Networks and Applications, Volume 8 Issue 5
Publisher: Kluwer Academic Publishers

Full text available: pdf(326.24 KB)   Additional Information: full citation, abstract, references, cited by, index terms

We address the problem of routing connection-oriented traffic in wireless ad-hoc networks with energy efficiency. We outline the trade-offs that arise by the flexibility of wireless nodes to transmit at different power levels and define a framework for ...

Keywords: energy efficiency, routing, scheduling, wireless ad-hoc networks

17 Using a coordination language to specify and analyze systems containing mobile components
P. Ciancarini, F. Franzé, C. Mascolo
April 2000 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 9 Issue 2
Publisher: ACM

Full text available: pdf(306.92 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

New computing paradigms for network-aware applications need specification languages able to deal with the features of mobile code-based systems. A coordination language provides a formal framework in which the interaction of active entities can be expressed. ...

18 Hardware-software-balanced resampling for the interactive visualization of unstructured grids
Manfred Weiler, Thomas Ertl
October 2001 VIS '01: Proceedings of the conference on Visualization '01
Publisher: IEEE Computer Society

Full text available: pdf(752.18 KB) Publisher Site   Additional Information: full citation, abstract, references, cited by, index terms

In this paper we address the problem of interactively resampling unstructured grids. Three algorithms are presented. They all allow adaptive resampling of an unstructured grid on a multiresolution hierarchy of arbitrarily sized cartesian grids according ...

19 3D RGB image compression for interactive applications
Chandrajit Bajaj, Insung Ihm, Sanghun Park
January 2001 ACM Transactions on Graphics (TOG), Volume 20 Issue 1
Publisher: ACM

Full text available: pdf(2.41 MB)   Additional Information: full citation, abstract, references, cited by, index terms

This paper presents a new 3D RGB image compression scheme designed for interactive real-

time applications. In designing our compression method, we have compromised between two important goals: high compression ratio and fast random access ability, and ...

20 Digital image watermarking using complex wavelet transform
    Nataša Terzija, Walter Geisselhardt
    September 2004 MM & Sec '04: Proceedings of the 2004 workshop on Multimedia and security
    Publisher: ACM
    Full text available: pdf(713.64 KB)   Additional Information: full citation, abstract, references, index terms, review

    In this paper a new robust digital image watermarking method based on the Complex Wavelet Transform is presented. For improving its robustness features in the algorithm design the Error Correction Code is used. The technique is performed in spatial domain. ...

    Keywords: attacks, complex wavelet transform, image processing, robust algorithms, watermarking

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